## LAPORAN TUGAS PEMROGRAMAN BERBASIS FRAMEWORK

## Modul 7 REDUX dan HOC



### Disusun Oleh:

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### Praktikum - Bagian 1: Instalasi Redux

# Langkah Keterangan Buat dan install redux 1 npx create-react-app contact-redux npm install -g create-react-app create-react-app contact-redux npm start $PS \ D: \ data \ Vsers \ Vser \ Documents \ College \ Framework \ Prog \ Tramework \ prog \ prog$ npx: installed 67 in 11.981s $\label{lem:contact-redux.} Creating a new React app in D:\data\Users\User\Documents\College\Framework\Prog\framework\Prog\T$ Installing packages. This might take a couple of minutes. Installing react, react-dom, and react-scripts with cra-template... $> core-js @ 2.6.12 \ postinstall \ D:\ data\ User\ User\ Documents \ College\ Framework \ Prog\ Th Week\ Contact-redux\ mode\_modules\ babel-runtime\ New \ Prog\ Th Week\ Contact-redux\ mode\_modules\ Mexicontact-redux\ mode\_modules\ mode\ Prog\ Th Week\ Mexicontact-redux\ mode\ Mexicontact-red\ mode\ Mexicontact-red\ mode\ Mexicontact-red\ mode\ Mexicontact-red\ mode\ Mexicontact-red\ mode\ Mexicontact$ ode modules\core-js > node -e "try{require('./postinstall')}catch(e){}" > core-js@3.9.1 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework prog\7thWeek\contact-redux\node modules\core-js PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\7thWeek> cd contact-redux PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\7thWeek\contact-redux> npm install -g create-react-app C:\Users\mycomp\AppData\Roaming\npm\create-react-app\index.js + create-react-app@4.0.3 added 67 packages from 25 contributors in 4.531s PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\7thWeek\contact-redux> ← → C ① localhost:3000 ⊕ In Edit src/App. js and save to reload. Learn React Install Form npm install --save redux react-redux redux-form PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\7thWeek\contact-redux> npm install --save redux react-redux redux-form npm | MARN | tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7. npm WARN redux-form@8.3.7 requires a peer of react@^16.4.2 but none is installed. You must install peer dependencies yourself. npm waRN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node\_modules\fsevents): npm waRN optional SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin", "arch":"any"} (current: {"os":"win32" "arch": "x64"}) , arch : xo4 }) np MARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node\_modules\watchpack-chokidar2\node\_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin", "arch":"any"} (current: {"os":"win32 ","arch":"x64"}) ","arch":"x64"}) npm MARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node\_modules\webpack-dev-server\node\_modules\fsevents): npm MARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin", "arch":"any"} (current: {"os":"win32 ","arch":"x64"}) + redux@4.0.5

### Ubah file index.html pada folder /public/index.html

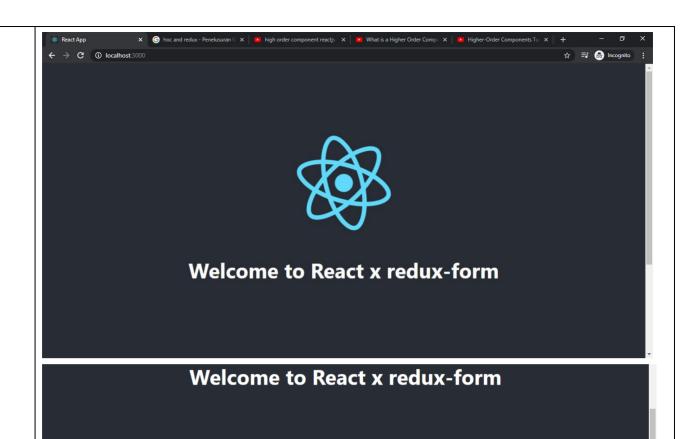
```
contact-redux > src > ↔ index.html > ...
     <!DOCTYPE html>
      <html lang="en">
        <head>
          <meta charset="utf-8" />
          <meta
            content="width=device-width, initial-scale=1, shrink-to-fit=no"
          <meta name="theme-color" content="#000000" />
 10
 11
          <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
 12
          k rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico" />
 13
          klink
           rel="stylesheet"
 14
 15
           href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css"
 16
 17
          <title>React App</title>
 18
 19
 20
 21
          <noscript> You need to enable JavaScript to run this app. </noscript>
 22
 23
        </body>
 24
      </html>
 25
```

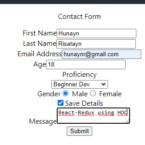
### Ubah file App.js pada folder /src/App.js

```
contact-redux > src > JS App.js > ...
                import React, { Component } from "react";
                import { reduxForm, Field } from "redux-form";
import logo from "./logo.svg";
                import "./App.css";
                let SignInForm = (props) => {
                     const { handleSubmit } = props;
                     return (
                          <form onSubmit={handleSubmit} className="form">
     8
                               <div className="field">
     9
                                    <div className="control">
  10
  11
                                        <Field
                                              name="firstName"
  13
                                              component={renderField}
                                               type="text"
  15
                                           label="First Name"
  16
  17
                                    </div>
  18
                                </div>
                                <div className="field">
  19
                                    <div className="control">
  20
                                         <Field
  21
                                            name="lastName"
  22
  23
                                              component={renderField}
                                               type="text"
  24
  25
                                              label="Last Name"
  26
  27
                                    </div>
  28
                                </div>
                                </div>
  28
                                                                                                                                                                                                                                                                                                                        The second secon
                                <div className="field">
  29
                                    <div className="control">
  30
  31
                                        <Field
  32
                                             name="email"
  33
                                              component={renderField}
                                               type="email"
  34
  35
                                               label="Email Address"
  36
  37
                                     </div>
  38
                                </div>
  39
                                <div className="field">
  40
                                     <div className="control">
                                       <Field name="age" component={renderField} type="number" label="Age" />
  41
  42
                                    </div>
  43
                                </div>
                                <div className="field">
  44
                                    <div className="control">
  45
                                          <label className="label">Proficiency</label>
  46
  47
                                           <div className="select">
  48
                                              <Field className="input" name="proficiency" component="select">
  49
                                                   <option />
                                                     <option value="beginner">Beginner Dev</option>
                                                     <option value="intermediate">Intermediate Dev</option>
  51
                                                    <option value="expert">Expert Dev</option>
  53
                                               </Field>
  54
                                          </div>
  55
                                     </div>
```

```
contact-redux > src > JS App.js > ...
 55
               </div>
 56
             </div>
 57
             <div className="field">
 58
               <div className="control">
                 <label className="label">Gender</label>
 59
                 <label className="radio">
 60
                   <Field name="gender" component="input" type="radio" value="male" />{" "}
 61
 62
                   Male
                 </label>
 63
 64
                 <label className="radio">
 65
                   <Field
 66
                     name="gender"
 67
                     component="input"
                     type="radio"
 68
 69
                     value="female
                   />{" "}
 70
 71
                  Female
                </label>
 72
               </div>
 73
 74
             </div>
             <div className="field">
 75
               <div className="control">
 76
 77
                 <label className="checkbox">
 78
                   <Field
 79
                     name="saveDetails"
 80
                     id="saveDetails"
 21
                     component="input"
                    type="checkbox"
 82
contact-redux > src > JS App.js > ...
                   type="checkbox"
 82
 83
                   Save Details
 84
 85
                </label>
               </div>
 86
             </div>
 88
             <div className="field">
 89
               <div className="control">
 90
                 <label className="label">Message</label>
 91
                 <Field className="textarea" name="message" component="textarea" />
 92
               c/divs
 93
             c/div>
             <div className="field">
 94
 95
              <div className="control">
                <button className="button is-link">Submit</button>
 96
 97
               </div>
 98
             </div>
 99
           </form>
100
        );
101
102
       const validate = (val) => {
103
         const errors = {};
104
         if (!val.firstName) {
          console.log("First Name is required");
errors.firstName = "Required";
105
106
107
         if (!val.lastName) {
108
          console.log("Last Name is required");
109
contact-redux > src > JS App.js > ..
          console.log("Last Name is required");
109
110
           errors.lastName = "Required";
111
         if (!val.email) {
112
         console.log("email is required");
113
           errors.email = "Required";
114
         } else if (!/^.+@.+$/i.test(val.email)) {
115
           console.log("email is invalid");
117
           errors.email = "Invalid email address";
118
        if (!val.age) {
   errors.age = "Required";
119
120
121
         } else if (isNaN(Number(val.age))) {
          errors.age = "Must be a number";
122
         } else if (Number(val.age) < 18) {
123
          errors.age = "Sorry, you must be at least 18 years old";
124
125
126
         return errors;
127
       };
128
       const renderField = ({
129
130
         label,
         type,
131
132
         meta: { touched, error, warning },
133
       }) => (
134
         <div>
          <div className="control">
135
            <label className="field">{label}</label>
136
```

```
contact-redux > src > JS App.js > ...
              <label className="field">{label}</label>
  136
  137
              <input className="input" {...input} placeholder={label} type={type} />
  138
              {touched &&
              ((error && <span>{error}</span>) ||
  139
  140
                 (warning && <span>{warning}</span>))}
  141
            </div>
  142
          </div>
  143
  144
        SignInForm = reduxForm({
          form: "signIn",
  145
  146
          validate,
  147
        })(SignInForm):
        class App extends Component {
  148
          handleSignIn = (values) => {
  149
           console.log(values);
  150
  151
          };
  152
          render() {
  153
            return (
              <div className="App">
  154
  155
                <header className="App-header">
  156
                 <img src={logo} className="App-logo" alt="logo" />
  157
                 <h1 className="App-title">Welcome to React x redux-form</h1>
                </header>
  158
               <div className="container">
  159
                Contact Form
  160
                 <SignInForm onSubmit={this.handleSignIn} />
  161
                </div>
  162
  163
             </div>
 contact-redux > src > JS App.js > ...
  152
          render() {
  153
            return (
  154
              <div className="App">
              <header className="App-header">
  155
                 <img src={logo} className="App-logo" alt="logo" />
  156
                 <h1 className="App-title">Welcome to React x redux-form</h1>
  157
  158
              </header>
  159
               <div className="container">
                Contact Form
  160
                 <SignInForm onSubmit={this.handleSignIn} />
  162
                </div>
  163
              </div>
  164
  165
  166
  167
        export default App;
  168
Ubah file /src/index.js
 contact-redux > src > JS index.js > ..
        import React from "react";
        import ReactDOM from "react-dom";
        import { createStore, combineReducers } from "redux";
        import { Provider } from "react-redux";
        import { reducer as formReducer } from "redux-form";
import "./index.css";
        import App from "./App";
        import registerServiceWorker from "./registerServiceWorker";
   q
        const rootReducer = combineReducers({
   10
        form: formReducer,
   11
        });
        const store = createStore(rootReducer);
   12
   13
        ReactDOM.render(
         <Provider store={store}>
   14
          <App />
   15
          </Provider>,
   16
   17
         document.getElementById("root")
   18
   19
        registerServiceWorker();
   20
Running hasilnya dan buatlah laporan
```





#### Keterangan:

1. Importing redux ke dalam react app

```
import { createStore, combineReducers } from "redux";
import { Provider } from "react-redux";
import { reducer as formReducer } from "redux-form";
```

2. Mengkoneksikan Form ke redux form

3. Validasi redux form ke dalam Higher Order Component

### 4. Membangun HOC dalam form redux

```
contact-redux > src > JS App.js > ♀ App > ♀ render
    const renderField = ({
128
129
     input,
      label,
130
131
     type,
    meta: { touched, error, warning },
132
133 }) => (
    <div>
134
      135
136
137
139
      (warning && <span>{warning}</span>))}
</div>
140
141
142
     </div>
143 );
```

Link GitHub: <a href="https://github.com/hunaynr/framework">https://github.com/hunaynr/framework</a> prog/tree/main/7thWeek

Link Youtube: <a href="https://youtu.be/n7JR-HxbYUQ">https://youtu.be/n7JR-HxbYUQ</a>